Data Sheet

We make sure



PRIMERGY RX100 S5

Issue May 30, 2008

Mono Socket Quad-Core Intel® Xeon® UP based Rack Server – Optimized in cost, size and complexity for easy deployment

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PRIMERGY RX servers are perfect answers for an IT strategy that seeks to downsize data center infrastructure costs by enhancing transparency of structure, management overhead and maximizing the use of investments.

With RX rack servers and the PRIMECENTER rack enclosures, your benefit from our renowned experience in data center technology, which assures the best quality of data center operation. To guarantee heterogeneous data center assets, the PRIMECENTER modular design accommodates seamless integration of PRIMERGY, SPARC Enterprise compute nodes, storage SAN and NAS subsystems, as well as other infrastructure components such as hubs, KVM switches and more, using a universal power circuit structure.

Cost-effective scaling, simplified operation and enhanced quality of data center IT production are the main benefits in deploying PRIMERGY RX servers. Their centralized PRIMERGY ServerView Suite management functions mean less troubleshooting and costs and remote access from anywhere at any time. The flexible custom supply model and our build-to-order process means that only fully built and pre-tested rack solutions are shipped to the customer – shortening your time to production.

PRIMERGY RX100 S5

As business processes and customer bases grow and rely more on Internet technology, data centers face the challenge of rapid enhancements of their front end infrastructure services. Increasingly they are looking for a platform solution that has minimum impact on their budgets, yet is easy to deploy and simple to operate. That is where the RX100 S5 optimally fits in

With technical evolutions like Quad-Core Intel® Xeon® UP 3200/3300 series CPU, integrated SAS or SATA RAID 0, 1 data protection for up to 2x 3.5-inch "easy change" SATA or 2x 3.5-inch hot-plug SATA/SAS disks and 8 GB direct addressable memory the PRIMERGY RX100 S5 matches your business application requirements perfectly. It combines the benefits of cost-optimized SATA or SAS disk technology with a space-saving 1 U form factor of less than 60 cm in depth. This makes it easy to integrate into any rack enclosures. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management and graphics based on IPMI 2.0 technology. Dual-Core Xeon® processors and an even more power saving Celeron® processor round off the offering alternatively.

The set of integrated network and management functions make it a good choice for budget-sensitive infrastructure solutions.



Benefits

- Cost-optimized platform for all datacenter front-end operations
- Allowing the platform to do more in less time, IT departments can consolidate applications and more effectively employ the server with less power consumption
- Quad-Core Xeon UP brings huge performance increase
- Easy to use and data safety
- Top-speed communications link via LAN as standard will assure continuity in failover mode

Key Features

- SATA or SAS RAID 0, 1 controller, dual Ethernet, Integrated Remote Management Controller (iRMC S2) as standard, ServerView Local Service Panel (LSP) opt.
- Intel® Quad-Core Xeon® UP 3200/3300 series or Dual-Core 3000/3100 series with EM64T and virtualization technology, or Pentium DC, Core2 Duo or Celeron® with lowest power consumption
- Integrated SAS or SATA RAID 0, 1, SATA hot-plug or easy change hard disks
- 2 x Gbit/s Ethernet LAN with TCP/IP accelerator plus switchable Service LAN (dedicated or shared)

Time	Mana Casket Dask Comer
Type System board	Mono Socket Rack Server D2542
System board Chip set	Intel® 3210
Processor	Intel® Celeron® /
1 10003301	Intel® Pentium DC / Core2 Duo /
	Intel® Xeon® UP (Dual- or Quad-Core)
Frequencies (GHz)	440 (2.0) 35W / E2160 (1.80) / E4600
	(2.40) / 3065 (2.33) / E3110 (3.00) DC all
	65W / X3210 (2.13), X3220 (2.40) GHz QC
	95W / X3350 (2.66); X3360 (2.83) all 95W
	QC
Front-Side-Bus	800 / 1066 (X32xx) / 1333 MHz DC Xeon
	UP and X33xx
Second-Level-Cache	512 KB / 1 MB / 2 MB / 4 MB / 6 MB DC
	Xeon / 2x 4 (32xx) / 2x 6 MB (33xx), ECC
Memory	512 MByte up to max. 8 GByte
	-800 SDRAM; organized in 2 banks with 2
DIMM slots each, for modules 512 MB, 1 and 2 GB; with dual channel operation better performance (2 modules with equal capacity	
	el (1 module) configuration
Flash-EPROM	(1 module) comiguration
	n USB floppy disk, USB Memory Bird;
	ia LAN (Global Flash tool).
Interfaces	
Serial	1 x RS-232-C, 9-pin usable for iRMC or
	system or shared
Keyboard, Mouse	2 x PS/2
USB	2 x front, 2 x back
Graphics	1 x VGA (15-pin)
LAN	2 x RJ45, 1x Service LAN 10/100 (can be
	switched on Gbit port and shared)
Front panel	·
On/off switch; NMI-, res	et button; LEDs for global error (amber/
vollow for Hoalth and C	
	CSS), identification (blue), hard disks access
(green), power (amber/	(SS), identification (blue), hard disks access green); (back: global error, identification, LAN
(green), power (amber/activity, LAN mode)	green); (back: global error, identification, LAN
(green), power (amber/activity, LAN mode) Onboard or integrated	green); (back: global error, identification, LAN controller**
(green), power (amber/ activity, LAN mode) Onboard or integrated SATA	green); (back: global error, identification, LAN controller** SATA (for 1x CD-RW / DVD / DVD-RW)
(green), power (amber/ activity, LAN mode) Onboard or integrated SATA SATA variant	I controller** SATA (for 1x CD-RW / DVD / DVD-RW) 2-port SATA 300 with RAID 0, 1 controller for
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(green), power (amber/activity, LAN mode) Onboard or integrated SATA SATA variant Intel® ICH9-R SAS variant	I controller** SATA (for 1x CD-RW / DVD / DVD-RW) 2-port SATA 300 with RAID 0, 1 controller for easy change SATA hard disks (hot-plug opt.) 4-Port SAS with RAID level 0, 1 for Windows
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(green), power (amber/activity, LAN mode) Onboard or integrated SATA SATA variant Intel® ICH9-R SAS variant (LSI1064)	I controller** SATA (for 1x CD-RW / DVD / DVD-RW) 2-port SATA 300 with RAID 0, 1 controller for easy change SATA hard disks (hot-plug opt.) 4-Port SAS with RAID level 0, 1 for Windows and Linux for 2 internal hot-plug SAS or SATA HDD's)
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(green), power (amber/activity, LAN mode) Onboard or integrated SATA SATA variant Intel® ICH9-R SAS variant (LSI1064) LAN (2x Broadcom 5715) Server management TPM (optional) Hard disk drives 1 Gbyte equals one billion byte capacity may vary. I/O Slots Drive bays for hard disks for optional accessible drives Electrical values Power supply Output power	I controller** SATA (for 1x CD-RW / DVD / DVD-RW) 2-port SATA 300 with RAID 0, 1 controller for easy change SATA hard disks (hot-plug opt.) 4-Port SAS with RAID level 0, 1 for Windows and Linux for 2 internal hot-plug SAS or SATA HDD's) 2x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0 compatible Infineon / 1.2 160 / 250 / 500 / 750 Gbyte SATA 3.5" 73 / 146 / 300 Gbyte SAS 3.5" (no mix) s when referring to hard disk drive capacity; accessible 1x PCIe x8 (standard, short 175 mm or low profile) 1x PCIe x8 (low profile 170 mm) 2x 3.5-inch easy change SATA or 2x 3.5-inch hot-plug SAS/SATA opt. 1x 5,25/0,5-inch for ODD 1x 3,5/0,5-inch for ServerView Local Service Panel (LSP) Standard 350 W
(green), power (amber/activity, LAN mode) Onboard or integrated SATA SATA variant Intel® ICH9-R SAS variant (LSI1064) LAN (2x Broadcom 5715) Server management TPM (optional) Hard disk drives 1 Gbyte equals one billion byte capacity may vary. I/O Slots Drive bays for hard disks for optional accessible drives Electrical values Power supply Output power Rated voltage range	I controller** SATA (for 1x CD-RW / DVD / DVD-RW) 2-port SATA 300 with RAID 0, 1 controller for easy change SATA hard disks (hot-plug opt.) 4-Port SAS with RAID level 0, 1 for Windows and Linux for 2 internal hot-plug SAS or SATA HDD's) 2x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0 compatible Infineon / 1.2 160 / 250 / 500 / 750 Gbyte SATA 3.5" 73 / 146 / 300 Gbyte SAS 3.5" (no mix) s when referring to hard disk drive capacity; accessible 1x PCIe x8 (standard, short 175 mm or low profile) 1x PCIe x8 (low profile 170 mm) 2x 3.5-inch easy change SATA or 2x 3.5-inch hot-plug SAS/SATA opt. 1x 5,25/0,5-inch for ODD 1x 3,5/0,5-inch for ServerView Local Service Panel (LSP) Standard 350 W 100 - 127, 200 - 240 V
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(green), power (amber/activity, LAN mode) Onboard or integrated SATA SATA variant Intel® ICH9-R SAS variant (LSI1064) LAN (2x Broadcom 5715) Server management TPM (optional) Hard disk drives 1 Gbyte equals one billion byte capacity may vary. I/O Slots Drive bays for hard disks for optional accessible drives Electrical values Power supply Output power Rated voltage range	I controller** SATA (for 1x CD-RW / DVD / DVD-RW) 2-port SATA 300 with RAID 0, 1 controller for easy change SATA hard disks (hot-plug opt.) 4-Port SAS with RAID level 0, 1 for Windows and Linux for 2 internal hot-plug SAS or SATA HDD's) 2x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration) (PXE-Boot via LAN from PXE server), iSCSI Boot (also diskless) via onboard LAN Integrated Remote Management Controller (iRMC S2, 32 MB attached memory) incl. graphics controller, IPMI 2.0 compatible Infineon / 1.2 160 / 250 / 500 / 750 Gbyte SATA 3.5" 73 / 146 / 300 Gbyte SAS 3.5" (no mix) s when referring to hard disk drive capacity; accessible 1x PCIe x8 (standard, short 175 mm or low profile) 1x PCIe x8 (low profile 170 mm) 2x 3.5-inch easy change SATA or 2x 3.5-inch hot-plug SAS/SATA opt. 1x 5,25/0,5-inch for ODD 1x 3,5/0,5-inch for ServerView Local Service Panel (LSP) Standard 350 W 100 - 127, 200 - 240 V

100V – 127V / 1.8 A
200V – 240V / 0.8 A
11.1.11
183 VA
637 kJ/h (604 btu/h)
nensions/Weight
10°C - 35°C (DIN IEC 721-3-3) class 3K2; ETSI 300 019-2-3 Class 3.1
idle* operating* (*ISO 7779)
ETSI 300 753 Class 3.1
4.9 B 6.1 B
: 34 dB 46 dB
42.5 * 430 * 560 (mm)
575 mm rack integration depth;
200 mm cable depth; 1 height unit (U)
Telescopic Rails with full extraction or
partial extraction
approximately 12 kg
(depends on configuration)
s and Standards
IEC 60950-1
EN 60950-1
UL / CSA 60950-1
patibility
ased accessories, are in compliance with in cases measures have to be taken to reduce
ence to other equipment.
EN 55 022 class A, EN 55024,
EN 300386, EN 61000-3-2 / -3,
ETSI EN 300386
CNS 13438 class A
VCCI class A / JEIDA
d AS/NZS CISPR 22 class A
FCC class A
nity
2004/108/EC(EMV);2006/95 EC(LVD)
ECC close A
FCC class A
FCC class A
СВ
CB CE
CB CE CSA _{US} / CSA _C
CB CE CSA _{US} / CSA _C BSMI / CCC
CB CE CSA _{US} / CSA _C
CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all
CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all North America. National approvals required
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CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all North America. National approvals required by regulations or for other reasons, can be ating systems s operating systems: e.g. Windows Server 2008, Novell SUSE Linux Enterprise Server ,
CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all North America. National approvals required by regulations or for other reasons, can be ating systems s operating systems: e.g. Windows Server 2008, Novell SUSE Linux Enterprise Server , x (Support of Debian, Ubuntu, Mandriva
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CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all North America. National approvals required by regulations or for other reasons, can be ating systems s operating systems: e.g. Windows Server 2008, Novell SUSE Linux Enterprise Server , x (Support of Debian, Ubuntu, Mandriva erivatives on demand) lers (onboard and PCI cards for SAS, RAID, refer to the corresponding system ee separate data sheets) PRIMERGY ServerView Suite; PDA, ASR&R ServerView Remote Management, iRMC S2
CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all North America. National approvals required by regulations or for other reasons, can be ating systems s operating systems: e.g. Windows Server 2008, Novell SUSE Linux Enterprise Server , x (Support of Debian, Ubuntu, Mandriva erivatives on demand) lers (onboard and PCI cards for SAS, RAID, erefer to the corresponding system ee separate data sheets) PRIMERGY ServerView Suite; PDA, ASR&R ServerView Remote Management, iRMC S2 Advanced Pack, ServerView Local Service
CB CE CSA _{US} / CSA _C BSMI / CCC ance with the safety requirements of all North America. National approvals required by regulations or for other reasons, can be ating systems s operating systems: e.g. Windows Server 2008, Novell SUSE Linux Enterprise Server , x (Support of Debian, Ubuntu, Mandriva erivatives on demand) lers (onboard and PCI cards for SAS, RAID, refer to the corresponding system ee separate data sheets) PRIMERGY ServerView Suite; PDA, ASR&R ServerView Remote Management, iRMC S2

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